



AMENDMENT UNDER 37 C.F.R. § 1.114(c)
U.S. Application No. 09/706,814

Attorney Docket No. Q61285
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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): Apparatus for storing audio and/or video data which is transmitted in the form of a packet including a program specific information (PSI), the audio and/or video data storing apparatus comprising:

a packet parser for extracting packet identification information from a PSI packet and outputting additional information corresponding to the extracted packet identification information and an audio and/or video packet;

an audio/video parser for parsing an audio and/or video packet using the packet identification information and outputting an audio/and or video packet;

an audio/video producer for inserting the additional information supplied form the packet parser into a particular region in the audio and/or video packet supplied from the audio/video parser;

a storage medium; and

a controller for controlling each element so that the additional information is inserted into the audio and/or video packet so as to be stored in the storage medium.

2. (original): The audio/video data storing apparatus of claim 1, wherein said packet parser comprises:

a program association table (PAT) parser for searching the packet to thereby detect packet identifier information of a plurality of tables included in the PAT and outputting the detected result as a plurality of table packets;

a program map table (PMT) parser for detecting an audio and/or video packet using a table packet and outputting a detected result;

a plurality of table parsers for outputting additional information of the plurality of table packets; and

an audio/video packet processor for converting the pattern of the audio and/or video packet detected from the PMT parser and outputting the converted result.

3. (original): The audio/video data storing apparatus of claim 2, wherein said plurality of table parsers comprises:

a network information table (NIT) parser for receiving an NIT packet from the PAT parser and outputting an event information table (EIT) packet;

an EIT parser for receiving the EIT packet from the NIT parser and outputting additional information;

a service description table (SDT) parser for receiving an SDT packet from the PAT parser and outputting additional information; and

a time data table (TDT) parser for receiving a TDT packet from the PAT parser and outputting additional information.

4. (original): The audio/video data storing apparatus of claim 2, wherein said audio/video packet processor converts the audio/video packet into a packetized elementary stream (PES).

5. (original): The audio/video data storing apparatus of claim 1, wherein said audio/video parser further comprises a decryptor for decrypting the audio and/or video packet in the case that the audio and/or video packet supplied from the packet parser has been encrypted.

6. (original): The audio/video data storing apparatus of claim 1, wherein said audio/video producer comprises:

a header detector for detecting a header region in the audio and/or video packet from the audio/video parser and outputting the detected result; and

an additional information inserter for inserting the additional information supplied from the packet parser into the header region detected in the header detector.

7. (original): The audio/video data storing apparatus of claim 4, wherein said particular region is the header region of the PES.

8. (original): The audio/video data storing apparatus of claim 4, wherein said particular region is a user data region of the PES.

9. (original): The audio/video data storing apparatus of claim 1, wherein said additional information is image feature information such as a title, a classification code, a time, content information, energy information and motion information of a user desired program.

10. (original): An apparatus for storing received audio and/or video data, the audio and/or video data storing apparatus comprising:

an encoder for converting the received audio and/or video data into an audio and/or video packet and outputting the converted result;

a feature parser for parsing features of the received audio and/or video data and outputting the parsed result;

a program information inputter for receiving user desired program information;

an additional information processor for producing additional information based on the program information supplied from the program information inputter and the parsed result supplied from the feature parser, and outputting the produced additional information;

an audio/video producer for inserting the additional information supplied from the additional information processor into a particular region of the audio and/or video packet supplied from the encoder;

a storage medium; and

a controller for controlling each element so that the additional information is inserted into the audio and/or video packet so as to be stored in the storage medium.

11. (original): The audio/video data storing apparatus of claim 10, wherein said encoder converts the audio and/or video data into a packetized elementary stream (PES).

12. (original): The audio/video data storing apparatus of claim 11, wherein said particular region is a header region of the PES.

13. (original): The audio/video data storing apparatus of claim 11, wherein said particular region is a user data region of the PES.

14. (original): The audio/video data storing apparatus of claim 11, wherein said additional information is image feature information such as a title, a classification code, a time, content information, energy information and motion information of a user desired program.

15. (currently amended): An apparatus for searching audio and/or video data having the form of an audio and/or video packet, including additional information of a user desired program, the audio/video data searching apparatus comprising:

an input portion for receiving an audio and/or video packet including additional information;

an additional information classifier for parsing the audio and/or video packet supplied from the input portion and extracting and outputting the additional information, and then outputting the audio and/or video packet excepting for the additional information;

an additional information parser comparing the additional information received from the additional information classifier with user search information and outputting a parsed result with respect to whether or not the search information is included in the additional information;

an audio/video decoder for decoding an audio and/or video packet supplied from the additional information classifier according to the parsed result supplied from the additional information parser; and

an output portion for outputting a decoded result supplied from the audio/video decoder and the additional information,

wherein the additional information is information which has been outputted from a packet parser of an audio and/or video data storing apparatus and inserted into the audio and/or video packet, and

wherein the packet parser has extracted packet identification information extracted from a program specific information (PSI) packet corresponding to the audio and/or video packet, and outputted the additional information corresponding to by the packet parser and the audio and/or video packet.

16. (original): The audio/video data searching apparatus of claim 15, wherein said additional information is image feature information such as a title, a classification code, a time, content information, energy information and motion information of a user desired program.